Cont B1

~~NO:1 to SEQ ID NO:93, SEQ ID NO:185~~ SEQ ID NO:85 and fragments thereof~~.~~ encoding a polypeptide comprising an epitope specific to said seven transmembrane receptor polypeptide.

Claim 4. (cancelled)

Claim 5. (currently amended) The isolated nucleic acid molecule of claim ~~4~~ 3 comprising ~~a sequence selected from the group of odd numbered sequences consisting of SEQ ID NO:1 to SEQ ID NO:93 and SEQ ID NO:185.~~ SEQ ID NO:85.

Claim 6. (cancelled)

Claim 7. (cancelled)

Claim 8. (original) The isolated nucleic acid molecule of claim 1 wherein said nucleic acid molecule is DNA.

Claim 9. (original) The isolated nucleic acid molecule of claim 1 wherein said nucleic acid molecule is RNA.

Claim 10. (currently amended) An expression vector comprising a nucleic acid molecule of any one of claims 1 ~~to~~,3 and 5.

Claim 11. (currently amended) The expression vector of claim 10 wherein said nucleic acid molecule ~~comprises a sequence selected from the group of odd numbered sequences consisting of SEQ ID NO:1 to SEQ ID NO:93 and SEQ ID NO:185.~~ is the nucleic acid molecule of claim 1.

Claim 12. (currently amended) The expression vector of claim 10 wherein said nucleic acid molecule ~~comprises a nucleotide sequence selected from the group consisting of: SEQ ID NO:1, SEQ ID NO:73, SEQ ID NO:9, SEQ ID NO:77, SEQ ID NO:11, SEQ ID NO:79, SEQ ID NO:~~

~~21, SEQ ID NO:81 SEQ ID NO:53, SEQ ID NO:83, SEQ ID NO:59, SEQ ID NO:85, SEQ ID NO:63, SEQ ID NO:87, SEQ ID NO:89, SEQ ID NO:67, SEQ ID NO:91, SEQ ID NO:93, SEQ ID NO: 3, and SEQ ID NO: 185.~~ is the nucleic acid molecule of claim 3.

Claim 13. (currently amended) The expression vector of claim 10 wherein said ~~nucleotide sequence is selected from the group consisting of: SEQ ID NO: 73, SEQ ID NO:77, SEQ ID NO:79, SEQ ID NO:81 SEQ ID NO:83, SEQ ID NO:85, SEQ ID NO:89, SEQ ID NO:93 and SEQ ID NO: 185.~~ nucleic acid molecule is the nucleic acid molecule of claim 5.

Claim 14. (original) The expression vector of claim 10 wherein said vector is a plasmid.

Claim 15. (original) The expression vector of claim 10 wherein said vector is a viral particle.

Claim 16. (original) The expression vector of claim 15 wherein said vector is selected from the group consisting of adenoviruses, baculoviruses, parvoviruses, herpesviruses, poxviruses, adeno-associated viruses, Semliki Forest viruses, vaccinia viruses, and retroviruses.

Claim 17. (original) The expression vector of claim 10 wherein said nucleic acid molecule is operably connected to a promoter selected from the group consisting of simian virus 40, mouse mammary tumor virus, long terminal repeat of human immunodeficiency virus, maloney virus, cytomegalovirus immediate early promoter, Epstein Barr virus, rous sarcoma virus, human actin, human myosin, human hemoglobin, human muscle creatine, and human metalothionein.

Claim 18. (original) A host cell transformed with an expression vector of claim 10.

Claim 19. (original) The transformed host cell of claim 18 wherein said cell is a bacterial cell.

Claim 20. (original) The transformed host cell of claim 19 wherein said bacterial cell is E. coli.

Claim 21. (original) The transformed host cell of claim 18 wherein said cell is yeast.

Claim 22. (original) The transformed host cell of claim 21 wherein said yeast is S. cerevisiae.

Claim 23. (original) The transformed host cell of claim 18 wherein said cell is an insect cell.

Claim 24. (original) The transformed host cell of claim 23 wherein said insect cell is S. frugiperda.

Claim 25. (original) The transformed host cell of claim 18 wherein said cell is a mammalian cell.

Claim 26. (original) The transformed host cell of claim 25 wherein mammalian cell is selected from the group consisting of chinese hamster ovary cells, HeLa cells, African green monkey kidney cells, human 293 cells, and murine 3T3 fibroblasts.

Claim 27. (currently amended) An isolated nucleic acid molecule comprising a nucleotide sequence complementary to at least a portion of a sequence ~~selected from the group of odd-numbered sequences consisting of SEQ ID NO:1 to SEQ ID NO:93 and SEQ ID NO:185, said portion comprising at least 10 nucleotides.~~ which encodes a polypeptide comprising an amino acid sequence set forth in SEQ ID NO:86 and fragments thereof encoding a polypeptide comprising an epitope specific to said polypeptide.

Claim 28. (currently amended) The nucleic acid molecule of claim 27 wherein said molecule is an antisense oligonucleotide directed to a region of ~~a sequence selected from the group of odd-numbered sequences consisting of SEQ ID NO:1 to SEQ ID NO:93 and SEQ ID NO: 185.~~ SEQ ID NO:85.

Claim 29. (cancelled)

Claim 30. (cancelled)

Claim 31. (original) A composition comprising a nucleic acid molecule of any one of claims 1 to 5 or 27 and an acceptable carrier or diluent.

Claim 32. (original) A composition comprising a recombinant expression vector of claim 10 and an acceptable carrier or diluent.

Claim 33. (original) A method of producing a polypeptide that comprises a sequence selected from the group of even numbered sequences consisting SEQ ID NO: 2 to SEQ ID NO: 94 and SEQ ID NO: 186, and homologs and fragments thereof, said method comprising the steps of:

a) introducing a recombinant expression vector of claim 10 into a compatible host cell;

b) growing said host cell under conditions for expression of said polypeptide; and

c) recovering said polypeptide.

Claim 34. (original) The method of claim 33 wherein said host cell is lysed and said polypeptide is recovered from the lysate of said host cell.

Claim 35. (original) The method of claim 33 wherein said polypeptide is recovered by purifying the culture medium without lysing said host cell.

Claims 36-97 (cancelled)

Claim 98 (new) A purified polynucleotide comprising a polynucleotide which hybridizes to SEQ ID NO:85 under the following hybridization conditions:

(a) hybridization for 16 hours at 42°C in a hybridization solution comprising 50% formamide, 1% SDS, 1 M NaC1, 10% dextran sulfate and

Cont B1

(b) washing 2 times for 30 minutes at 60°C in a wash solution comprising 0.1x SSC and 1% SDS.